

Figure 1

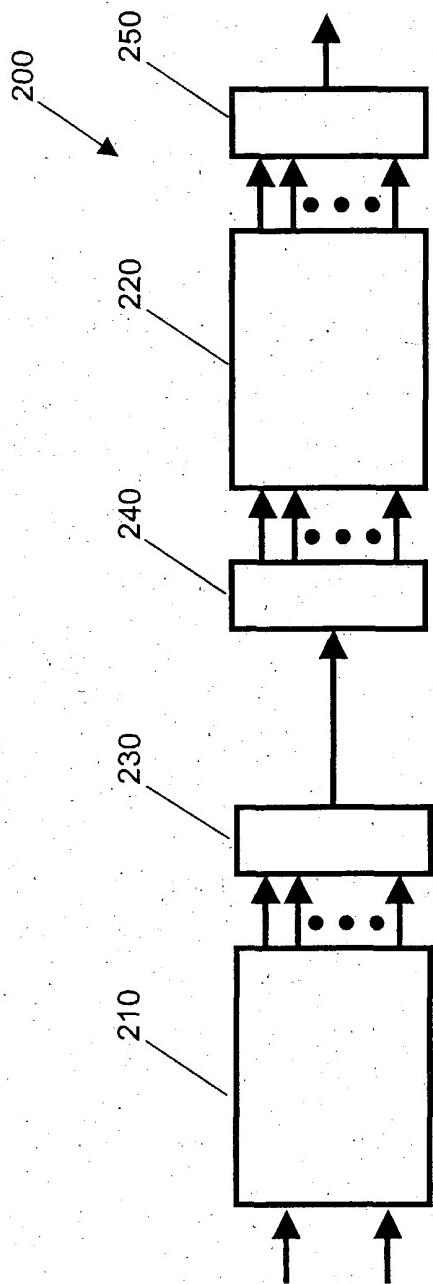


Figure 2A

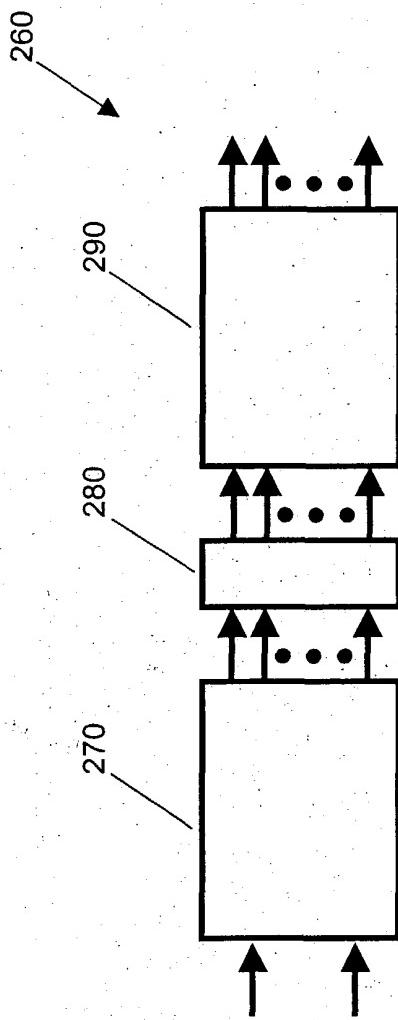


Figure 2B

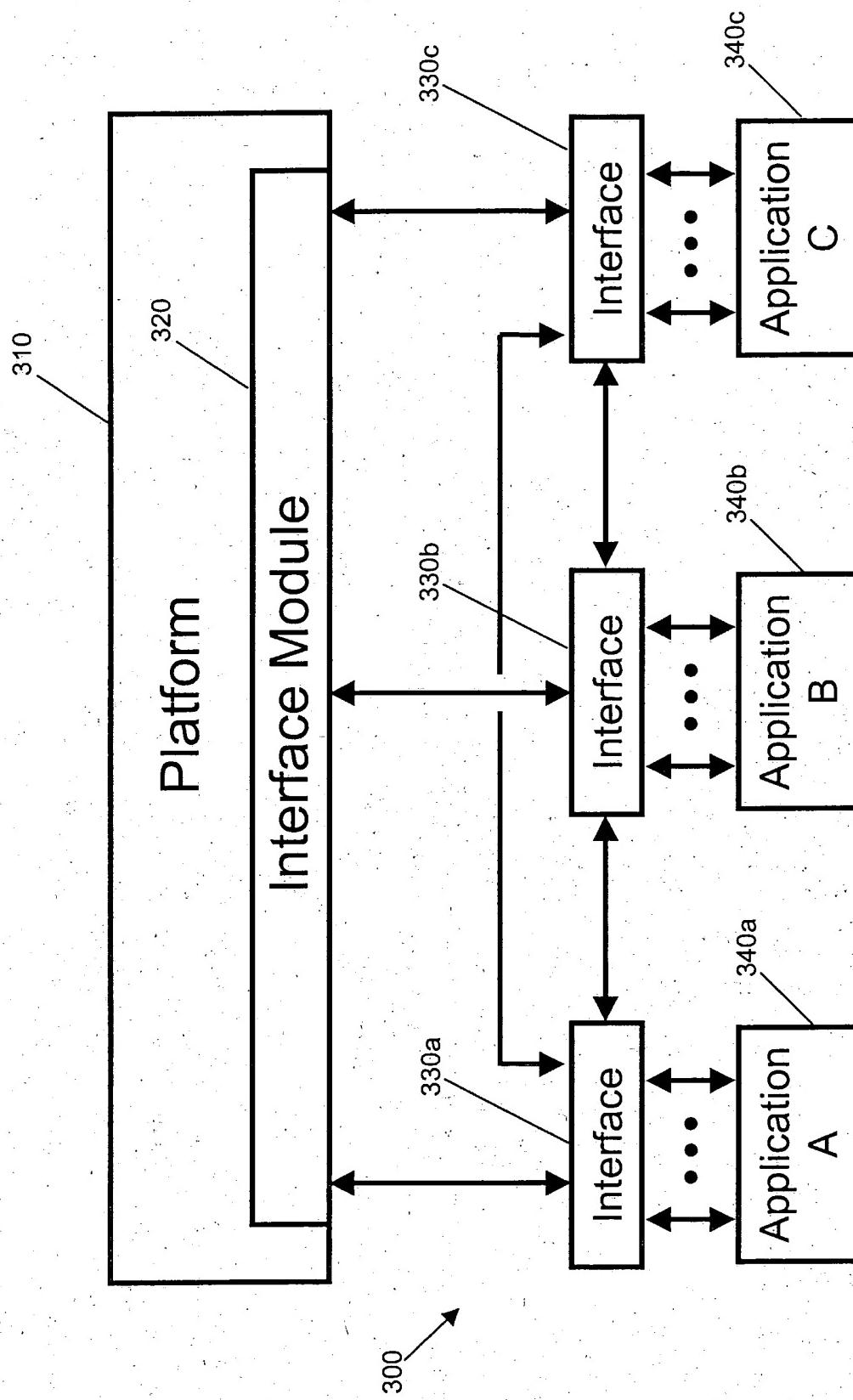


Figure 3A

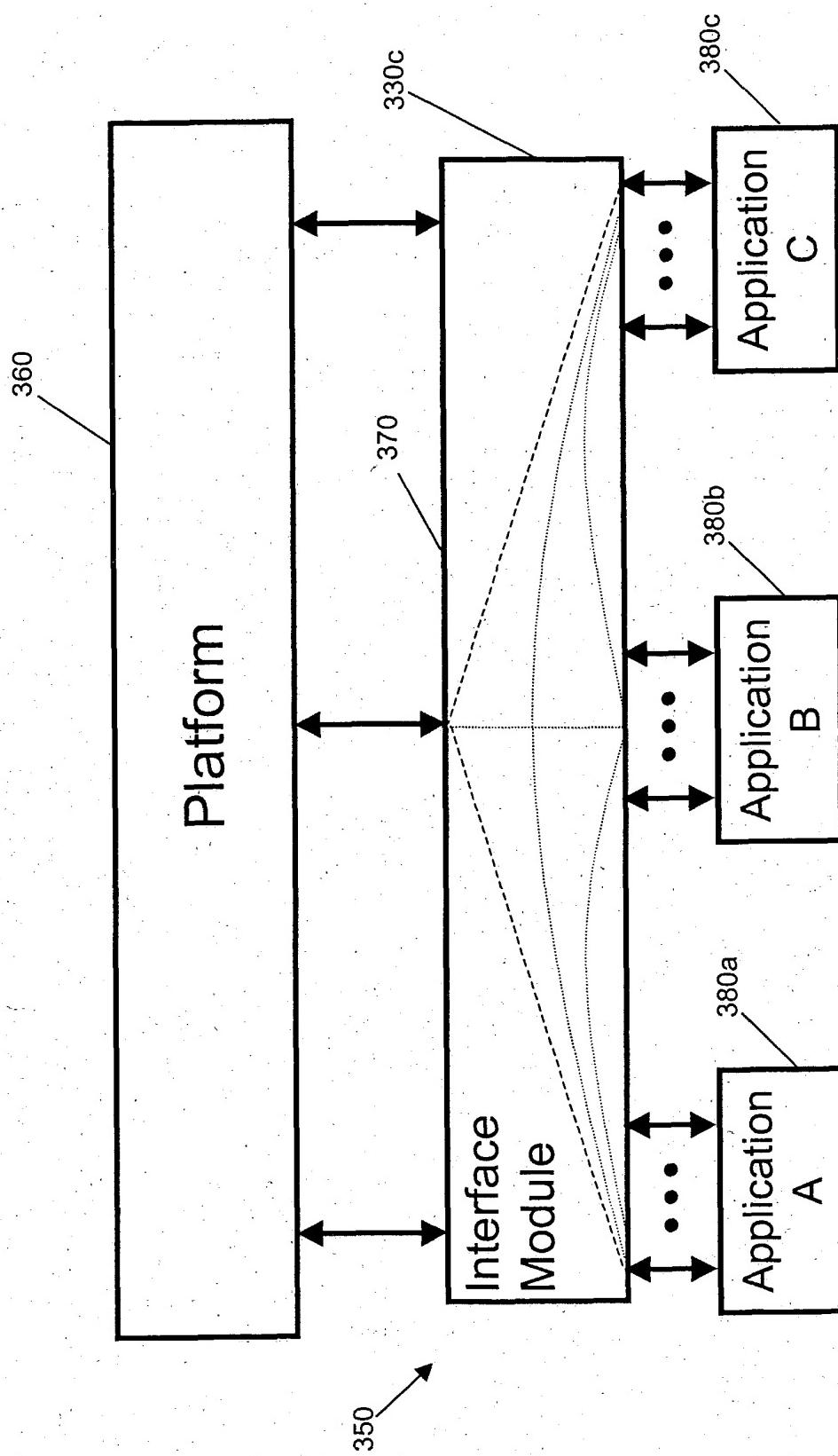


Figure 3B

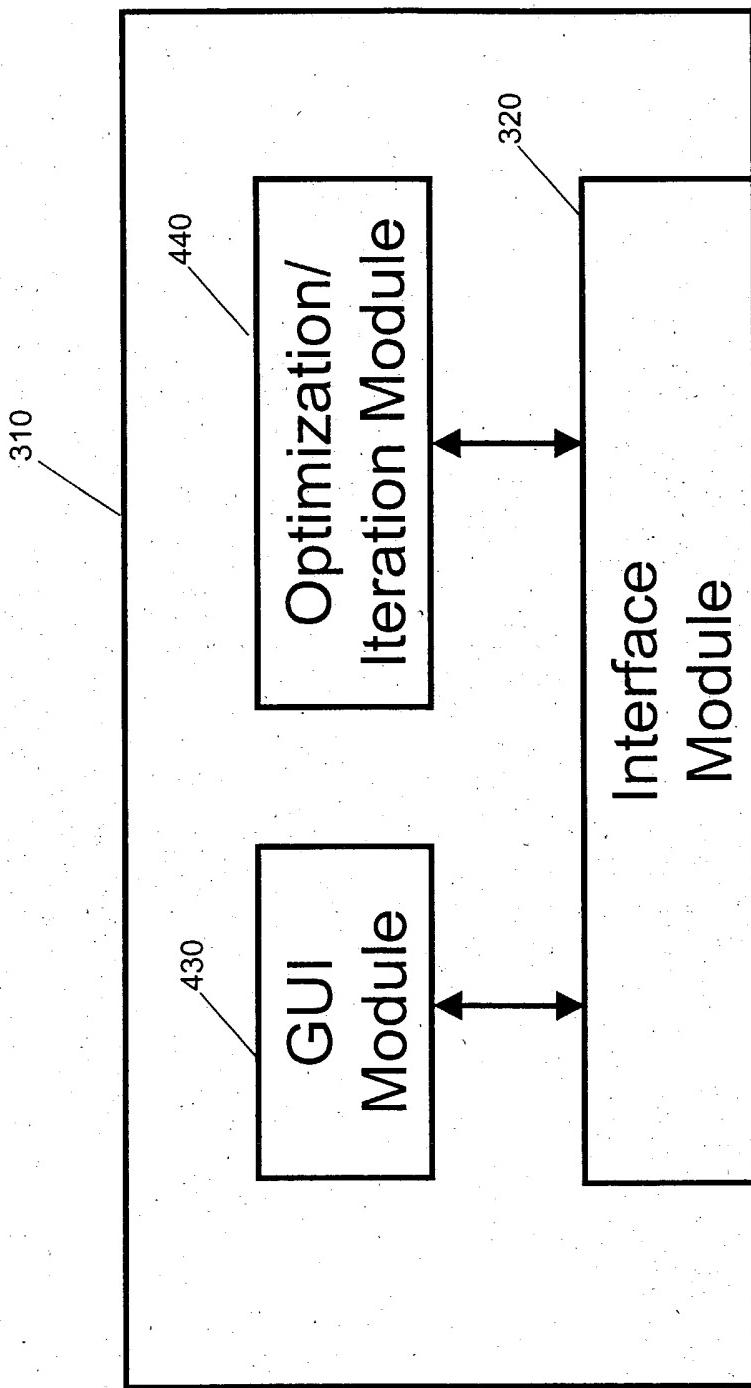


Figure 4

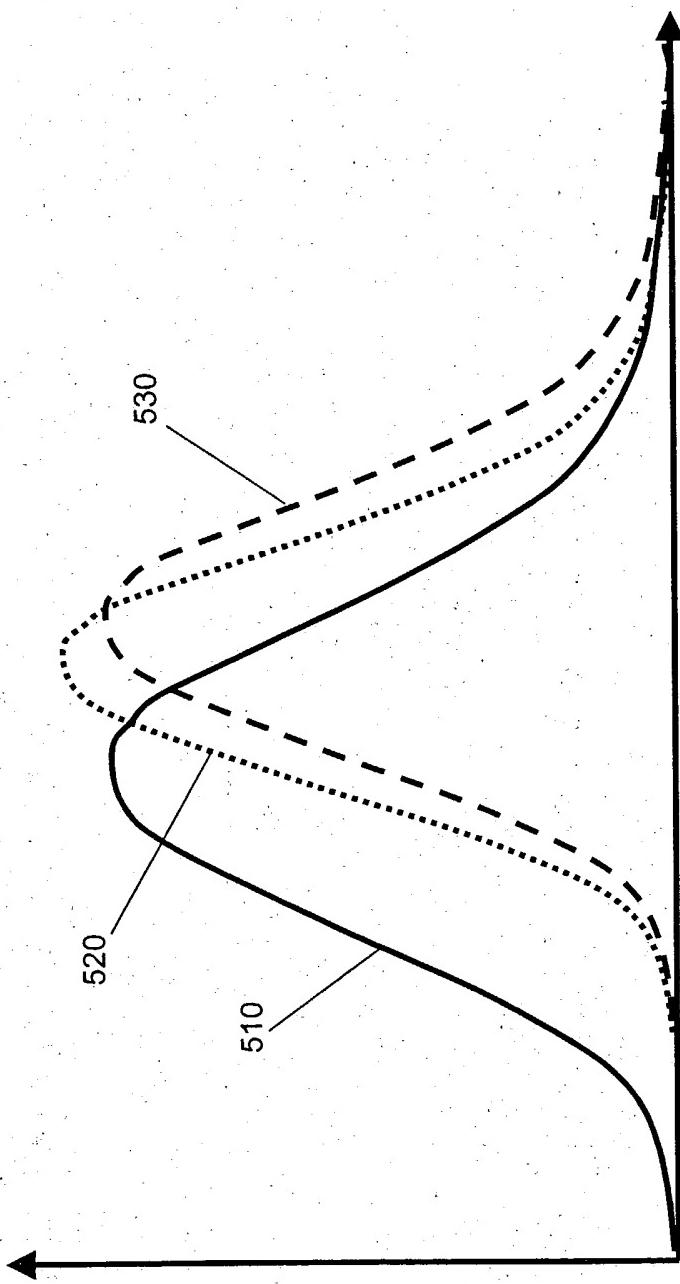


Figure 5

```
<!ELEMENT state (name,description,data*)>
<!-- Name --> 610
<!ELEMENT name (#PCDATA)>
<!-- Description --> 620
<!ELEMENT description (#PCDATA)>
<!-- Description Elements -->
<!ELEMENT data (#PCDATA)> 630
<!ATLIST name CDATA #REQUIRED>
```

Figure 6A

```
<?xml version="1.0" standalone="no" ?>
<!DOCTYPE state (View Source for full doctype...)>
<state>
  <name>PDF</name>
  <description>Normal</description>
  <data name="Mean">0.200</data>
  <data name="Stdv">0.001</data>
</state>
```

Figure 6B

```
<!ELEMENT model (input*, (submodel | cluster | component)*, output*)>
<!ATTLIST model name CDATA #REQUIRED>
<!ELEMENT input (parameter*)>
<!ELEMENT output (parameter*)>
<!ATTLIST input name CDATA #REQUIRED>
<!ATTLIST output name CDATA #REQUIRED>
<!ELEMENT parameter (name, description, data*)>
<!ELEMENT name (#PCDATA)>
<!ELEMENT description (#PCDATA)>
<!ELEMENT data (#PCDATA)>
<!ATTLIST data name CDATA #REQUIRED>
<!ELEMENT submodel (input*, (cluster | component)*, output*)>
<!ATTLIST submodel name CDATA #REQUIRED>
<!ELEMENT cluster (input*, component*, output*)>
<!ATTLIST cluster name CDATA #REQUIRED>
<!ELEMENT component (input*, system, output*)>
<!ATTLIST component name CDATA #REQUIRED>
<!ELEMENT system (parameter*)>
```

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Figure 6C

```
<model name="model1">
  <input name="input1">
    <name>I1</name>
    <description>Normal PDF</description>
    <data name="mean">0.200</data>
    <data name="stdv">0.001</data>
  </input>
  <!-- Sub Model Description (inputs, internal parameters, outputs) -->
  <submodel name="submodel-A">
    <cluster name="cluster-D">
      <component name="Component-A">
        <!-- Uncertainties in submodel inputs -->
        <input name="input-A'-1">
          <parameter>
            <name>IA1</name>
            <description>Normal PDF</description>
            <data name="mean">.300</data>
            <data name="stdv">0.002</data>
          </parameter>
        <!-- Uncertainties in submodel parameters -->
        </input>
        <system>
          <parameter>
            <name>A1</name>
            <description>Normal PDF</description>
            <data name="mean">0.500</data>
            <data name="stdv">0.010</data>
          </parameter>
        </system>
        <!-- Uncertainties in submodel outputs -->
        <output name="output-A'-1">
          <parameter>
            <name>OA1</name>
            <description>Normal PDF</description>
            <data name="mean">0.330</data>
            <data name="stdv">0.004</data>
          </parameter>
        </output>
      </component>
    </submodel>
    <!-- Uncertainties in outputs from overall model -->
    <output name="output1">
      <parameter>
        <name>O1</name>
        <description>Normal PDF</description>
        <data name="mean">0.400</data>
        <data name="stdv">0.005</data>
      </parameter>
    </output>
  </model1>
```

Figure 6D

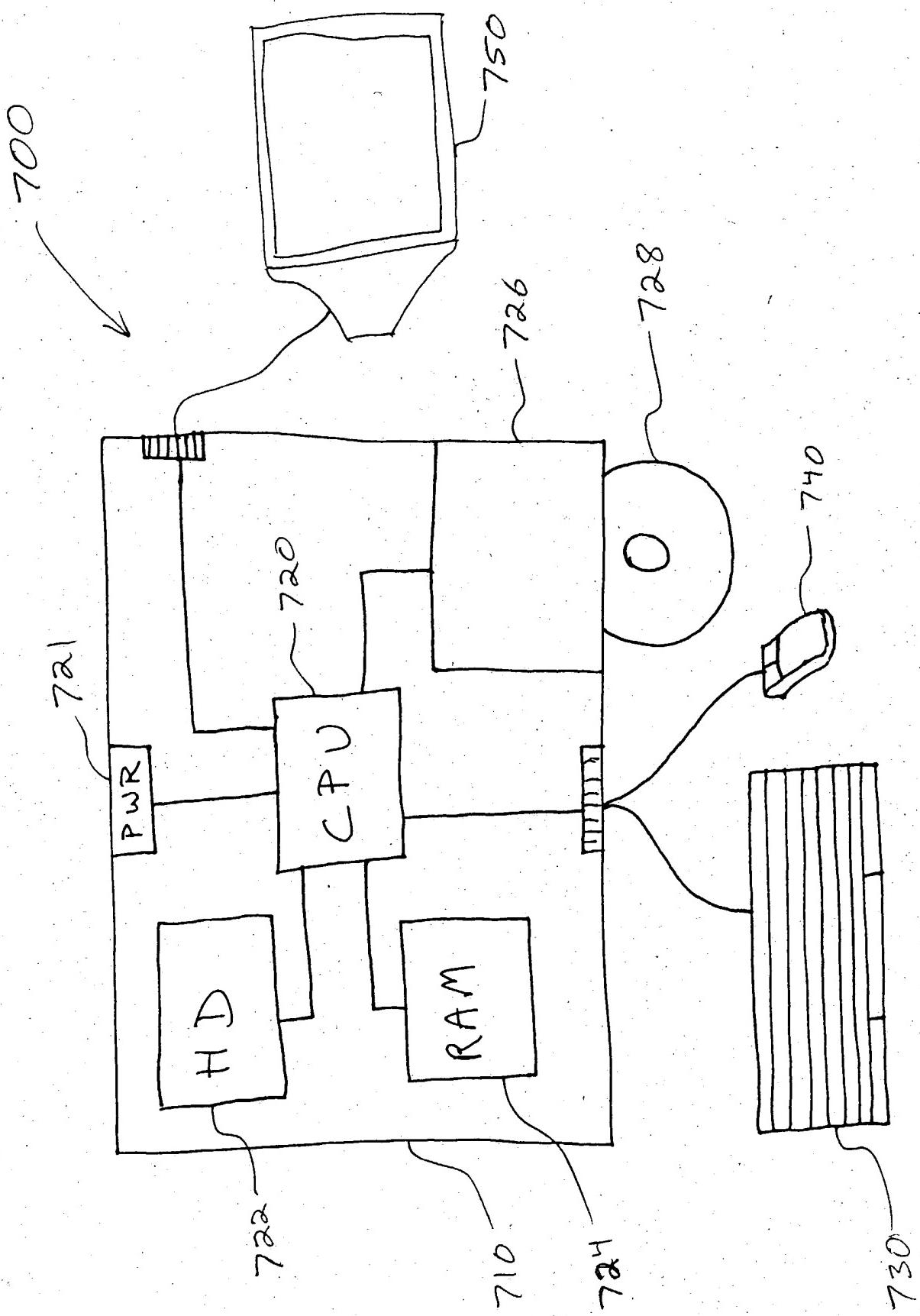


Figure 7